

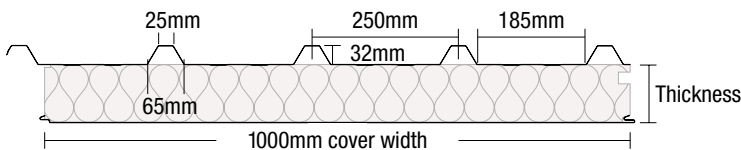
Non-Cyclonic

Panel Properties																					
Panel Thickness (mm)		50			75			100			125			150			200				
'R' Value (m ² K/W)		1.60			2.30			2.90			3.60			4.20			5.5				
Wind Class	ULS Design Wind Pressure (kPa)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)
		Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span		
N2-W33	1.51	3.9	3.6	550	4.5	5.1	900	5.1	6.0	1200	5.7	6.6	1600	6.0	7.2	2400	6.9	8.1	2750		
N3-W41	2.35	3.0	2.7	550	3.6	3.9	900	3.9	4.8	1200	4.5	5.1	1600	4.8	5.1	1900	5.5	5.1	2100		
N4-W50	3.50	2.1	1.8	550	2.7	2.4	900	3.3	3.3	1200	3.6	3.3	1400	3.9	3.3	1500	4.5	3.3	1500		
N5-W60	5.17	1.5	-	550	2.1	1.5	800	2.7	2.1	900	3.0	2.1	900	3.0	2.1	900	3.7	2.1	900		

Cyclonic

Panel Properties																					
Panel Thickness (mm)		50			75			100			125			150			200				
'R' Value (m ² K/W)		1.60			2.30			2.90			3.60			4.20			5.50				
Wind Class	ULS Design Wind Pressure (kPa)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)
		Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span			Single Span	Multi-Span		
C1-W41	3.42	2.1	1.8	550	3.0	2.1	900	3.3	2.7	1200	3.6	3.3	1600	3.9	3.6	1800	4.5	3.6	1800		
C2-W50	5.08	1.5	-	550	2.1	1.5	800	2.7	2.1	1000	3.0	2.4	1200	3.3	3.0	1300	3.7	3.0	1300		
C3-W60	7.51	-	-	-	-	-	-	1.8	1.5	700	2.1	1.5	800	2.7	1.5	1000	3.0	1.5	1000		
C4-W70	10.12	-	-	-	-	-	-	-	-	-	1.5	-	600	2.1	-	600	2.14	-	600		

Dimensions



Notes:

- Wind speeds and coefficients based on AS 4055 - Wind Loads for Housing.
- Roof pressure coefficients based on the following worst case assumptions:
 - External Pressure - Ratio of building height to least horizontal dimension on plan, $h/d < 0.5$. $C_{pe} = -0.9$
 - Internal Pressure - Non-Cyclonic: Building has no dominate openings & more than one permeable wall or is effectively sealed. $C_{pi} = +0.2$
- Cyclonic: Based on dominate opening pressure. $C_{pi} = +0.7$
 - Local Pressure - Least Horizontal Dimension on Plan $< 20m$ ($a = 4m$). $K_l = 1.5$
 - Combination Factor - $K_c = 0.95$
 - Non-cyclonic - $C_{fig} = -1.57$, Cyclonic - $C_{fig} = -2.28$
- Serviceability deflection limit of span/150 has been allowed for.
- Self weight of the panel has been allowed for, plus an allowance of up to 25kg/m² (0.25kPa dead load) for light duty fittings (lights, etc.).
- Concentrated load of 140kg (as per AS/NZS 1170.1) on any one panel has been allowed for as a separate loadcase.
- Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for.
- Fixing at each rib for non-cyclonic regions and each rib and pan for cyclonic regions with 14g tek screws (or equivalent) are required.
- Overhangs:
 - Max. Overhang min. of value stated or 40% of backspan.
 - Overhangs include an allowance for a 1.1kN concentrated load based on strength limit state as a separate loadcase.
- Span tables have been developed by Blich Tanner Consulting Engineers by interpretation of physical testing conducted & reported by BRANZ.

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